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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,603	08/29/2001	Yoshinobu Furuse	106145-00021	5934
7590 05/25/2004 ARENT FOX KINTNER PLOTKIN & KAHN, PLLC			EXAMINER	
			LIN, KUANG Y	
	cut Avenue, N.W., Suit OC 20036-5339	e 600	ART UNIT PAPER NUMBER	
<i>5</i> ,			1725	

DATE MAILED: 05/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application N .	Applicant(s)	
	09/940,603	FURUSE ET AL.	•
Office Action Summary	Examiner	Art Unit	
	Kuang Y. Lin	1725	
Th MAILING DATE of this communication Period for Reply	appears on the cover shet v	vith the correspondence address	\$
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of th riod will apply and will expire SIX (6) MC atute, cause the application to become A	a reply be timely filed hirty (30) days will be considered timely. NTHS from the mailing date of this communi ABANDONED (35 U.S.C. § 133).	ication.
Status			
1) Responsive to communication(s) filed on 2	9 August 2003.		
·- ·	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal ma	tters, prosecution as to the mer	its is
closed in accordance with the practice under	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	
Disp sition of Claims		·	
4) ☐ Claim(s) 11 and 12 is/are pending in the ap 4a) Of the above claim(s) is/are withe 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11 and 12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exam	niner.		
10)☐ The drawing(s) filed on is/are: a)☐ :	accepted or b)☐ objected to	by the Examiner.	
Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •		
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	·	- · · · · ·	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. Itents have been received in priority documents have been reau (PCT Rule 17.2(a)).	Application No In received in this National Stage	e
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 	· —	o(s)/Mail Date Informal Patent Application (PTO-152) 	

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicants' admitted prior art as set forth in pages 1-2 of the specification and further in view of either Ruehl et al or Leith.

The admitted prior art substantially shows the invention as claimed except that it uses a welding technique instead of molding technique to join the frame members (it is noted that in the door sash of the admitted prior art is provided with a bent end part). However, both secondary references show to place frame members inside a mold cavity and then inject molten material around the joining members to join the same. Apparently, the molding technique forms a stronger joint since the molding material provide a greater joining area. Further, in col. 1,

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line 34 through col. 2, line 47 of Ruehl et al they disclose that there are numeral problems when joining or uniting elements in a vehicle structure through a welding process. They solve the problem by joining or uniting the elements through a casting technique. In view of the prior art teachings as a whole, it would have been obvious to use the simpler molding technique of the secondary references to join the frame members of the admitted prior art to form a stronger joint.

4. Applicant's arguments filed August 29, 2003 have been fully considered but they are not persuasive.

Applicant stated in page 7, 3rd paragraph of the remarks that cited prior art references do not provide the claimed fitting groove of curved shape. However, both Ruehl et al and Leith show to provide die cavity (120 in Ruehl and 36 in Leith) for pouring molten metal therein to join the parts (frame elements 101, 102 in Ruehl et al and main shaft 12, crankpin 14 in Leith). These die cavity perform the function as the groove of the instant application. Further, although they do not show the curved shape of joining members and corresponding curved die cavities, the shape of joining members and the die cavities depending on the shape of the product to be obtained. Thus, it would have been obvious to use curved shape joining members and the die cavities shall curved shape joining members, such as the members shown in the admitted prior, are to be joined.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuang Y. Lin whose telephone number is 571-272-1179. The examiner can normally be reached on Monday-Friday, 10:00-6:30,.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas X Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kuang Y. Lin Primary Examiner Art Unit 1725

5-21-04